

# Srihari Humbarwadi

Bangalore

(+91)

Srihari humbarwadi

Portfolio: <http://sriharihumbarwadi.com>

Github: <https://github.com/srihari-humbarwadi>

## SKILLS

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- Strong analytical and problem solving ability.
- Good understanding of web security practices, OWASP top 10.

## EDUCATION

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| <b>Belagavi, Karnataka</b>  | <b>KLS Gogte Institute of Technology</b> | <b>2014 – 2018</b> |
| <ul style="list-style-type: none"><li>• B.E. in Computer Science and Engineering. Graduation Percentage : 70.75%</li><li>• 10<sup>th</sup> percentage (95.96%), 12<sup>th</sup> percentage (95%, PCM)</li></ul> |  |                    |

## TECHNICAL EXPERIENCE AND PROJECTS

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- **Detecting ransomware delivery using deep neural networks (Python):** The delivery of ransomware/malware can be detected by using *timing* and *URI* microbehaviors as features for DNN. This model classifies each network capture file (PCAP) as benign or exploit – if classified as exploit it alerts the sysadmin to take further actions. Eg: Apply new GPO for the AD. (originally researched by Rod Soto and Joseph Zadeh)
- **Inventory management system (Python Flask, MySQL):** A web application with frontend for user registration, login, and view inventory, backend with RESTful API's for CRUD operations along with 2 user roles.
- **Image recognition with serverless web application (AWS Lambda, Rekognition, API Gateway):** A simple serverless web application which accepts images from users and identifies all the human faces present in it.
- **Token based authentication for REST endpoints (Python):** Provides a simple and light weight method to authenticate API requests, with the use of single use tokens.
- **Text to speech (AWS Polly, lambda, API gateway):** Simple web application using AWS services to convert given input into speech, with option to change the accent.
- **URL Shortener (Android, Java):** Offers to shorten the input of long URL into a short and easily exchangeable URL, the short URL can be user defined.
- **Network reconnaissance (PowerShell, .NET):** Scans the network for any intruders, and has option to scan open ports for a given node.
- **HID based key stroke injection (Arduino, embedded C, PowerShell):** Programmed a arduino based chip to behave as a HID device (keyboard) and send keystrokes when plugged in. Eg: Upon plugging in, it is capable of quickly running a one liner TCP reverse shell command on PowerShell, or steal saved passwords from Google Chrome.
- **Reverse Shell with backdoor-ed executable (Fully undetected) (PowerShell):** Created a reverse shell payload and backdoor-ed it inside an executable. The code was obfuscated to avoid triggering the anti-virus software.
- **Containerized Steam (Docker, Linux):** Created a Docker image to run steam containerized, with support for GPU acceleration. The image was tested to run 10 parallel instances of steam on a single host OS successfully.

## ADDITIONAL EXPERIENCE

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- Extensive knowledge about information security policies, standards, and practices, principles of cryptography, cryptography Tools, attacks on cryptosystems, PKI and certificates.
- Thorough understanding about PGP, Internet Standards and RFCs, X.800, X.509, IPsec.
- In-depth understanding about OSI, TCP/IP Subnetting, network intrusion detection and ACL's.
- Hands on experience with open source penetration testing tools like metasploit, Burpsuite, OWASP –ZAP.
- Generated vulnerability Assessment report for a well-known college, and helped to get the vulnerabilities patched.
- First Place, algorithmic coding event – “Knightron”.
- Solved 200+ coding problems on online platforms (Hackerearth, Hackerrank, Leetcode).
- Solved good number of CTFs on online platforms (Vulnhub, DVWA, Juice-shop, Google Gruyere).

## Languages and Technologies

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- **Languages:** C++, Python, bash, PHP
- **Frameworks and Technologies:** Docker, AWS, HTML, CSS, Burp suit, Metasploit, Git versioning, Keras, scikit-learn, OWASP - ZAP